

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 63119490
PUBLICATION DATE : 24-05-88

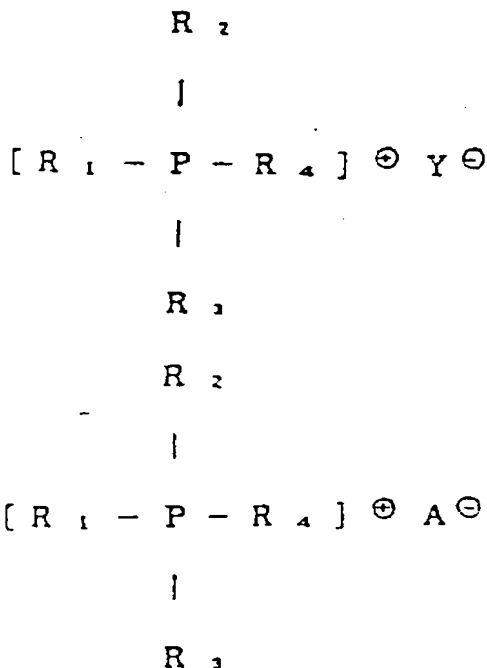
APPLICATION DATE : 05-11-86
APPLICATION NUMBER : 61263052

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INT.CL. : C07F 9/54

TITLE : PRODUCTION OF QUATERNARY
PHOSPHONIUM COMPOUND



ABSTRACT : PURPOSE: To obtain the titled compound useful for antiseptics, herbicides, plant growth-regulating agents, germicides, antistatic agents, resin modifying agents, etc., by reacting a specific quaternary phosphonium compound with a sulfonate compound in a specific solvent.

CONSTITUTION: (A) A quaternary phosphonium compound expressed by formula I [R_1 ~ R_3 represent 1~22C alkyl, alkylaryl, 2~22C alkenyl, aryl, aralkyl, etc.; R_4 represents 1~22C alkyl benzyl, cyanoethyl, phenethyl, $R_6O(MO)_mM^-$ (R_6 represents 1~22C alkyl, alkenyl, etc.; M represents 1~4C alkylene or phenethyl; m is 1~100), etc.; Y represents halogen atom] is reacted with (B) a compound expressed by the formula R_7SO_3M [R_7 represents $HOCH_2CH_2-$, $CH_2=CH-CH_2-$, etc.; M represents alkali (earth) metal] in a solvent such as 1~6C alcohol, methyl ethyl ketone, dimethyl sulfoxide, DMF, dioxane, ethyl acetate, etc., to afford the aimed compound expressed by formula II (A^- represents $R_7SO_3^-$).

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